

Claims:

1.

A fuel delivery assembly for vehicles, comprising:

a first assembly defining a mount adapted to be fixed onto a wall of a fuel tank and which carries at least one accessory;

a second assembly including an electric motor fuel pump; and

a third assembly including at least two interchangeable linking members respectively fixed on the first assembly and on the second assembly, to provide support to the second assembly from the first assembly.

2.

The fuel delivery assembly of claim 1, wherein at least one of the linking members is tubular and hollow to permit fuel flow therethrough.

3.

The fuel delivery assembly of claim 1, wherein the accessory is a fuel filter.

4.

The fuel delivery assembly of claim 1, wherein the accessory is a fuel pressure regulator.

5.

The fuel delivery assembly of claim 1, wherein the accessory is a fuel level sensor.

6.

The fuel delivery assembly of claim 1, wherein the first assembly includes two corresponding shells that define a filter chamber.

7.

The fuel delivery assembly of claim 1, wherein the first assembly integrally defines at least one conduit through which fuel discharged from the fuel pump flows.

8.

The fuel delivery assembly of claim 3, wherein the fuel filter is clamped to the first assembly.

9.

The fuel delivery assembly of claim 1, wherein the first assembly is made from polyoxymethylene.

10.

The fuel delivery assembly of claim 1, wherein the filter is an annular filter disposed in a chamber formed in the first assembly said chamber having an outlet conduit which communicates with a center of the filter and an inlet conduit which communicates with the periphery of the filter.

11.

The fuel delivery assembly of claim 1, wherein the first assembly defines a housing for receiving a pressure regulator.

12.

The fuel delivery assembly of claim 11, wherein the first assembly defines two concentric conduits with one adapted to communicate with the inlet of the pressure regulator and the other adapted to communicate with the outlet of a pressure regulator.

13.

The fuel delivery assembly of claim 1 wherein the first assembly defines two coaxial conduit sections separated by a wall.

14.

The fuel delivery assembly of claim 1 which also includes an inlet filter provided with an inner brace and carried by the fuel pump.

15.

The fuel delivery assembly of claim 14 wherein the inlet filter includes an end portion of plastic material adapted to be received on and to extend the inlet of the fuel pump.

16.

The fuel delivery assembly of claim 15 wherein the end portion is integral with the filter and includes a conduit that has the general shape of an L.

17.

The fuel delivery assembly of claim 15, wherein the inlet filter is attached to the fuel pump at a location spaced from the brace to facilitate bending of the fuel filter.

18.

The fuel delivery assembly of claim 1, wherein the second assembly includes an annular housing adapted to receive the fuel pump.

19.

The fuel delivery assembly of claim 18, wherein the annular housing adapted to receive the fuel pump includes longitudinal ribs on its internal surface to provide an interference fit with the fuel pump.

20.

The fuel delivery assembly of claim 1, wherein the second assembly includes a housing provided with tubular portions adapted to receive the associated ends of the linking members to connect the second assembly and third assembly.

21.

The fuel delivery assembly of claim 1, wherein the second assembly includes a housing for receiving the fuel pump that further includes an arm having a portion defining a lower axial abutment for the fuel pump.

22.

The fuel delivery assembly of claim 21 which also includes a fuel filter carried by the fuel pump and wherein the portion of the arm defining an axial abutment for the fuel pump is adapted to be sandwiched between the fuel pump and the filter in order to prevent axial movement of the fuel pump.

23.

The fuel delivery assembly of claim 21, wherein the portion of the arm defining an axial abutment for the electric pump includes a tooth adapted to engage a corresponding sector of the electric pump to prevent it from rotating.

24.

The fuel delivery assembly of claim 1, wherein the linking members are formed of metal tube.

25.

The fuel delivery assembly of claim 1, the linking members are formed of plastic.

26.

The fuel delivery assembly of claim 1, wherein the linking members are bent.

27.

The fuel delivery assembly of claim 1, the linking members include reference beads.

28.

The fuel delivery assembly of claim 1, wherein the linking members have lower sections of gutter form adapted to guide fuel.

29.

The fuel delivery assembly of claim 1, which also includes at least one lock washer attached to a linking member and the second assembly to prevent the linking member from moving with respect to the second assembly.

30.

The fuel delivery assembly of claim 1, wherein the linking members include clips for attaching the linking members to the second assembly.